



CVE-2022-23586

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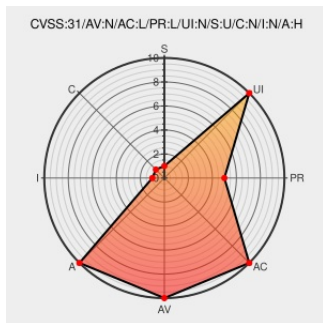
CVE-2022-23586 - advisory for GHSA-43jf-985q-588j

[Source: Mitre](#)

[Source: NIST](#)

[CVE.ORG](#)

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Certain versions of [Tensorflow](#) from [Google](#) contain the following vulnerability:

Tensorflow is an Open Source Machine Learning Framework. A malicious user can cause a denial of service by altering a `SavedModel` such that assertions in `function.cc` would be falsified and crash the Python interpreter. The fix will be included in TensorFlow 2.8.0. We will also cherry-pick this commit on TensorFlow 2.7.1, TensorFlow 2.6.3, and TensorFlow 2.5.3, as these are also affected and still in supported range.

CVE-2022-23586 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: tensorflow - tensorflow version < 2.5.3

Affected Vendor/Software: tensorflow - tensorflow version >= 2.6.0, < 2.6.3

Affected Vendor/Software: tensorflow - tensorflow version >= 2.7.0, < 2.7.1

CVSS3 Score: **6.5 - MEDIUM**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: **4 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality Impact	Integrity Impact	Availability Impact

NONE

NONE

PARTIAL

CVE References

Description	Tags	Link
Eliminate `CHECK`-fail from `function.cc` · tensorflow/tensorflow@3d89911 · GitHub	github.com text/html	🔗 MISC github.com/tensorflow/tensorflow/commit/3d89911481ba6ebe8c88
Multiple `CHECK`-fails in `function.cc` · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	🔗 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-45
tensorflow/function.cc at a1320ec1eac186da1d03f033109191f715b2b130 · tensorflow/tensorflow · GitHub	github.com text/html	🔗 MISC github.com/tensorflow/tensorflow/blob/a1320ec1eac186da1d03f033109191f
Eliminate debug `CHECK`-fail from `function.cc` · tensorflow/tensorflow@dcc21c7 · GitHub	github.com text/html	🔗 MISC github.com/tensorflow/tensorflow/commit/dcc21c7bc972b10b6fb95

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Tensorflow	2.7.0	All	All	All
Application	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	All	All	All	All

cpe:2.3:a:google:tensorflow:2.7.0:*****:

cpe:2.3:a:google:tensorflow:*****:

cpe:2.3:a:google:tensorflow:*****:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-23586 : Tensorflow is an Open Source Machine Learning Framework. A malicious user can cause a denial of se... twitter.com/i/web/status/1...	2022-02-04 22:50:39
/r/netcve	CVE-2022-23586	2022-02-04 23:38:42

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